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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/396,245	09/15/1999	FRANK LEYMAN	GE998-078	7155

7590

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EXAMINER

TANG, KENNETH

ART UNIT

PAPER NUMBER

2127

DATE MAILED: 03/14/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/396,245

Applicant(s)

LEYMANN ET AL.

Examiner

Kenneth Tang

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 9-15-99.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-6 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-6 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 9-15-99 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

1. This action is in response to Paper number 2, filed on 9-15-02. Claims 1-6 are presented for examination.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. The term "commencing-activity" in claims 2 and 3 is a relative term, which renders the claim indefinite. The term "commencing-activity" is not defined by the claim, the specification does not provide a standard for ascertaining the requisite degree, and one of ordinary skill in the art would not be reasonably apprised of the scope of the invention.

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 1 is rejected under 35 U.S.C. 102(e) as being unpatentable by Davis et al.

(hereinafter Davis) (US 5,870,545).

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3. Referring to claim 1, Davis teaches a computerized method for processing of start-conditions processed by a computer systems acting as a Workflow-Management-System (WFMS) or a computer system with comparable functionality [*"system and method for performing flexible workflow process compensation in a distributed workflow management system"*, see *Abstract*, and *"forward arc triggers the starting of the node"*, col. 6, lines 43-47]:

- said WFSM comprising at least one process-model said process-model comprising one or more process-activities being nodes of an arbitrary graph and directed control-connectors of said graph defining a potential control flow within said process-model [*"HP OpenPM Process Model"*, col. 6, lines 26, *"directed graph 40 consisting of a set of nodes connected by arcs as displayed on the HP Open PM user interface"*, col. 6, lines 32-34, *connectors such as FA1, FA3, ..., Fig. 10*];
- said method evaluating, if a target-activity may be started, by evaluating the truth-value of a start-condition once the truth-values of all incoming control-connectors of said target-activity have been posted [*"each rule node 151 contains a list of condition-action rules. The condition is a Boolean expression of values, such as the execution status of other nodes, the time at which each incoming arc was fired and other data used in the process instance."*, col. 12, lines 44-51];
- and said method being further characterized by comprising a timed-evaluation-step, said timed-evaluation-step evaluating:
 - o if at least a first one of said incoming control-connectors is associated with a time-interval [*"rule node 42"*, *"time at which each inward arc is fired and process-relevant data associated with the process instance"*, col. 7, lines 9-15]

- if said time-interval has been met [*time interval has been met when the “inward arc is fired”, col. 7, lines 9-15*];
 - and, in the affirmative case, said timed-evaluation-step is continuing the processing to start said target-activity even if not all truth-values of said incoming control-connectors have been posted yet [*“rule node 151”, “condition-action rules”, “the condition is a Boolean expression of values”, “fired”, col. 12, lines 44-51, “every activity instance has a start time and a complete time”, col. 12, lines 24-26*],
 - if the truth-value of said first incoming control-connector has been posted [*“raised and subscribed by rule nodes 151”, “events”, col. 12, lines 52-60*];
 - if said truth--value evaluates to TRUE [*It is inherent that the “arc is fired when the “Boolean expression” is TRUE. Col. 12, lines 44-51*].
4. Referring to claim 2, Davis teaches a method processing of start-conditions processed:
- wherein said first incoming control-connector is associated with a commencing-activity [*the first control-connector is between W1 and W2 (or 121 and 122, respectively), see Figure 7, “rule node 151”, “condition-action rules”, “the condition is a Boolean expression of values”, “fired”, col. 12, lines 44-51, “every activity instance has a start time”, col. 12, lines 24-26, and “start work node 150”, col. 13 lines 10-20. It is inherent that the commencing activity occurs with the start work node and the next node with the control-connector being the connecting agent of the two nodes.*];
 - wherein said timed-evaluation-step uses as starting point for said time-interval the point in time when said commencing-activity is completed. [*“every activity instance has a start*

time and a complete time", col. 12, lines 24-26, and "start work node 150", "end work node", col. 13 lines 10-20, and "OpenPM engine 20 identifies all nodes that are reachable from a given node", col. 17, lines 53-56, "Boolean expression" is used to determine either completed or not completed (traversed), col. 12, lines 44-51].

5. Referring to claim 3, Davis teaches a method for processing of start-conditions processed:

- wherein said first incoming control-connector is associated with a path from said commencing-activity to said target-activity [*the first control-connector is between W1 and W2 (or 121 and 122, respectively), see Figure 7, "path, col. 15, lines, 53-67, "rule node 151", "fired", col. 12, lines 44-51, "every activity instance has a start time", col. 12, lines 24-26, and "start work node 150", col. 13 lines 10-20. It is inherent that the commencing activity occurs with the start work node and the next node with the control-connector being the connecting agent of the two nodes.*];
- said timed-evaluation-step is continuing the processing to start said target-activity, if said associated path has been traversed [*"traversed" then can be "resetted" and then can be "re-executed", col. 7, lines 27-35, "every activity instance has a start time", col. 12, lines 24-26, and "start work node 150", col. 13 lines 10-20.*];

4. Applicant claims a system comprising means adapted for carrying out the steps of the method according to anyone of the preceding claims 1 to 3. Referring to claim 4, it is rejected for the same reasons as stated in the rejections of claims 1-3.

5. Applicant claims a data processing program for execution in a data processing system comprising software code portions for performing a method according to anyone of the preceding claims 1 to 3. Referring to claim 5, it is rejected for the same reasons as stated in the rejections of claims 1-3. In addition, Davis includes a data processing program for execution in a data processing system comprising software [*"computer", "process", "processor", "executes", "memory", "input/output", see Abstract*].
6. Applicant claims a computer program product stored on a computer usable medium, comprising computer readable program means for causing a computer to perform a method according to anyone of the preceding claims 1 to 3. Referring to claim 6, it is rejected for the same reasons as stated in the rejections of claims 1-3. In addition, Davis includes a data processing program for execution in a data processing system comprising software [*"computer", "process", "processor", "executes", "memory", "input/output", see Abstract*].

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Tang whose telephone number is (703) 305-5334. The examiner can normally be reached on 9:00am-6:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Follansbee can be reached on (703) 305-8498. The fax phone numbers for the

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organization where this application or proceeding is assigned are (703) 746-7239 for regular communications and (703) 746-7238 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is none.

kt
February 27, 2003

M. B.
MAJID BANANKHAH
PRIMARY EXAMINER